

MASTER  
PLAN | VISION  
2040



# Master Plan Study Public Workshop #3

June 1 - 2, 2016



Raleigh-Durham Airport Authority

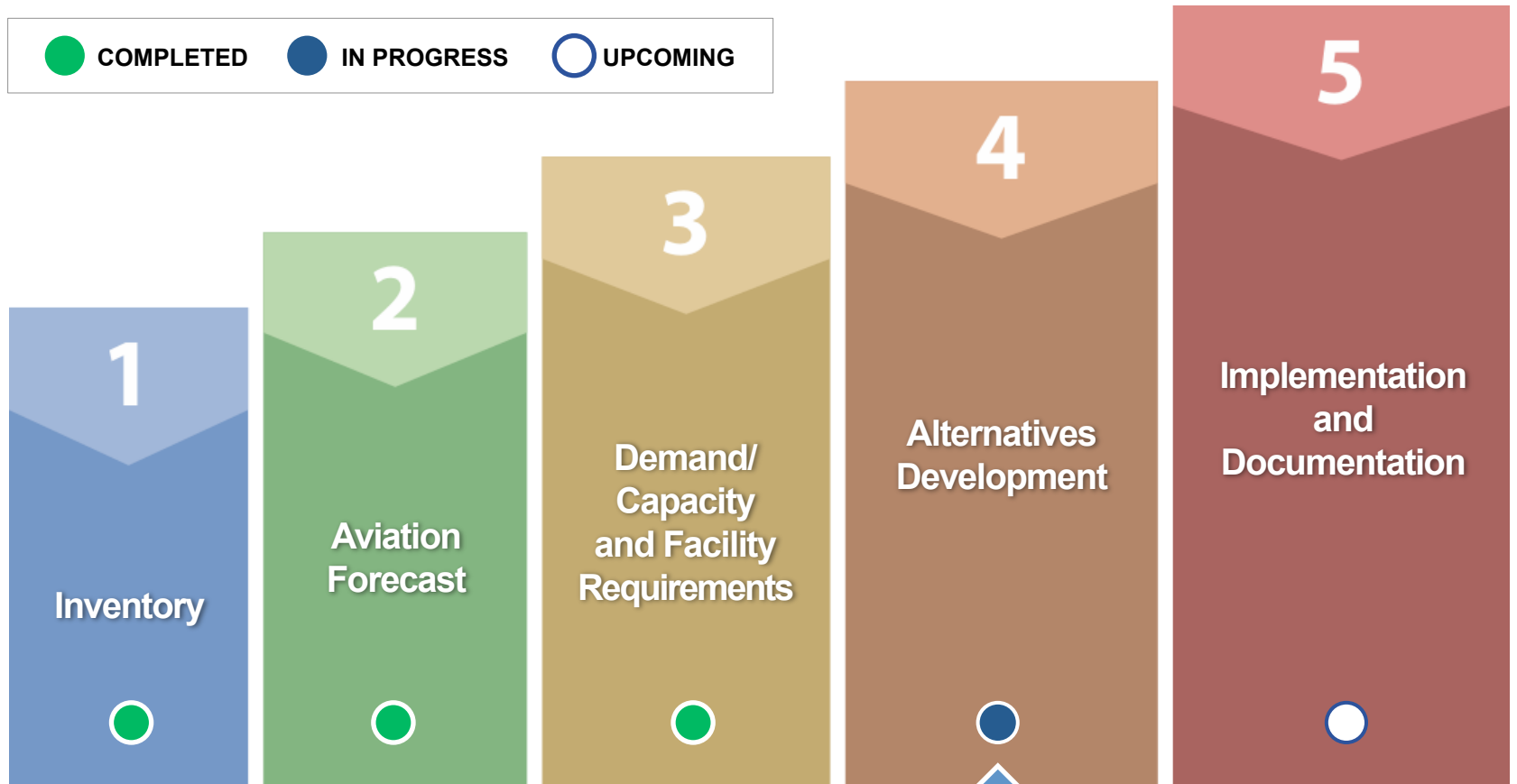
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# Agenda

- ▶ Master Plan Status
- ▶ Alternatives
  - Process
  - Development
  - Screening
- ▶ Vision2040 Next Steps
- ▶ Alternatives (Boards)

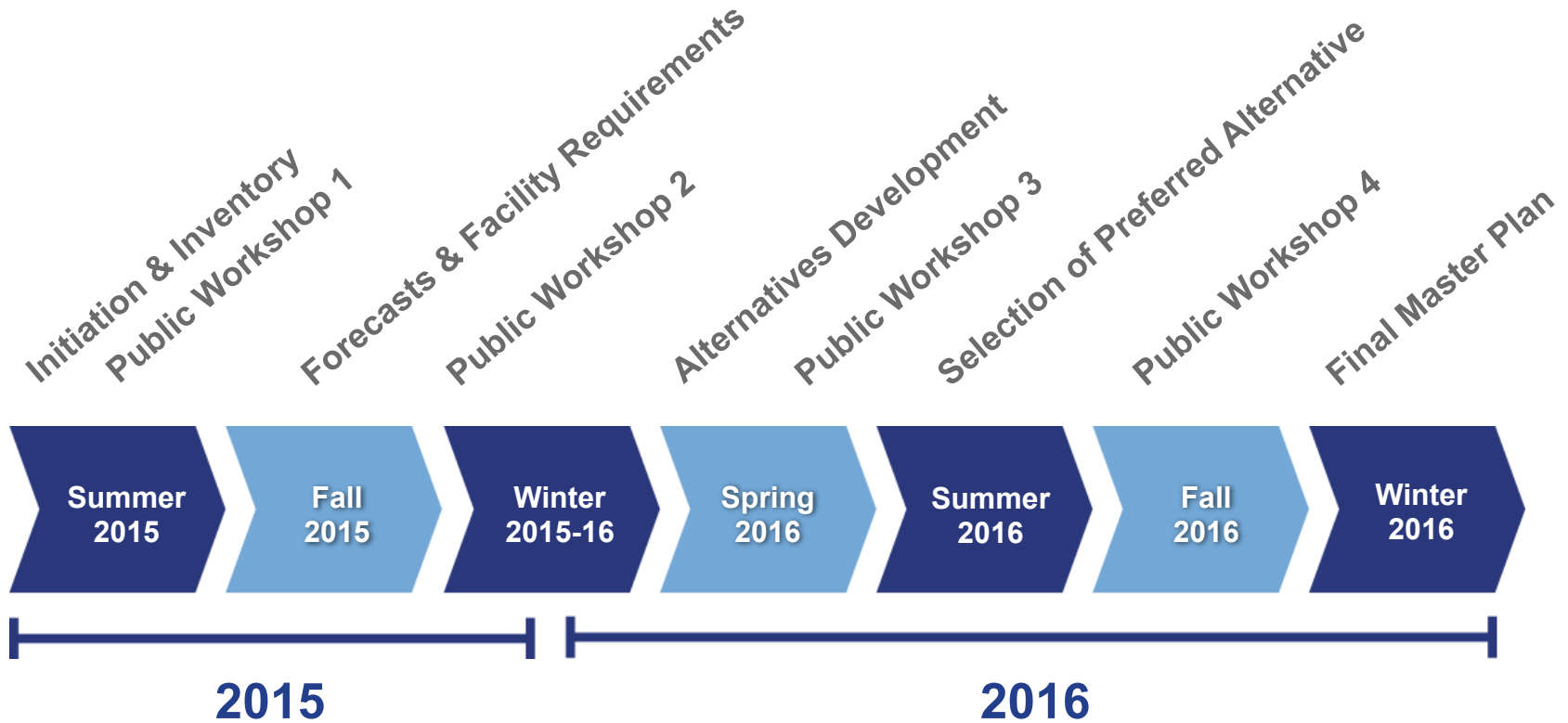
# Master Plan Study Progress

● COMPLETED   ● IN PROGRESS   ○ UPCOMING



JUNE 2016

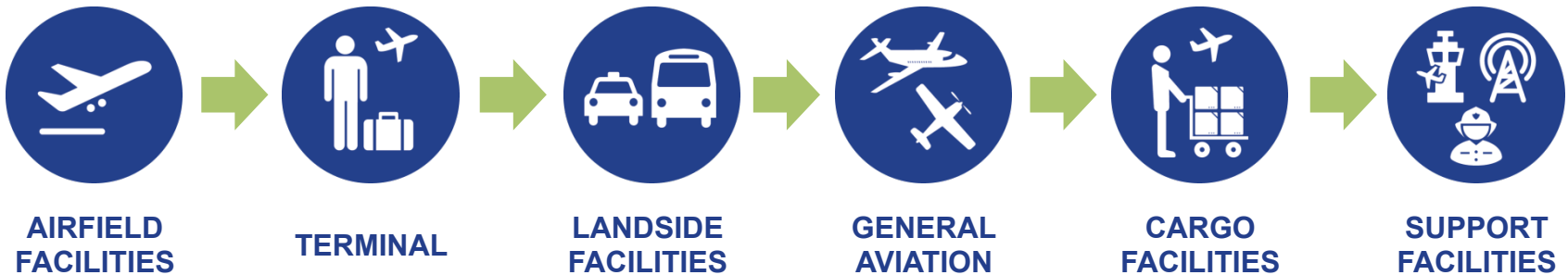
# Schedule



Vision2040 is following the defined 18-month schedule.

# Alternatives Definition Process

- ▶ Alternatives represent future concepts of airport growth – not a rigid development plan
- ▶ Meet defined aeronautical needs
- ▶ Comply with FAA criteria
- ▶ Consider operational safety and efficiency
- ▶ Recognize hierarchy among facilities



# Alternatives Development



## Airfield challenges

*(Runways, taxiways, aprons)*

- Evolving aircraft fleet / fleet diversity
- Runway length needs (international / long haul)
- Runway 5L-23R reconstruction
- Runway capacity: incremental and long range

# Alternatives Development



## Terminal challenges

*(Terminal 1, Terminal 2, aircraft gates, international facilities)*

- Available apron depth
- Increasing gate demand
- Increasing international activity / FIS location
- Changing aircraft fleet (long term)
- Long range growth potential
- Phased implementation

# Alternatives Development



## Landside challenges

*(Roadways, terminal curbsides, parking, rental car)*

- Maximize utilization
  - Parking
  - Curbside
  - Roadway
- Mixed curbsides (single level and dual level)
- Significant parking demand
- Passenger convenience
- Connectivity



# Alternatives Screening

- ▶ Screen Components
  - 10 Runway Alternatives
  - 24 Terminal Alternatives
  - 21 Landside Alternatives
  - 9+ Support Facilities Alternatives
- ▶ Integrate components
  - Hybridize and refine
  - Mitigate Deficiencies
- ▶ 9 Composite Alternatives

## Master Plan Goals



Encompass improvements that will ensure the Airport's safety, efficiency, and capability to serve the community's aviation needs.



Optimize infrastructure and resources in an operationally, financially and environmentally sustainable manner.



Enhance the passenger and customer experience through long range development actions.



Define development plans that are scalable to respond to variations in demand over the planning horizon.












Preserve flexibility to adapt to emerging and future technologies.



Accommodate connectivity to various modes of transportation as components of Airport development plans.

# Initial Screening

- ▶ Identify alternatives not viable for further evaluation
- ▶ Representative screening criteria
  -  Ability to meet future demand
  -  Implementation complexity and scalability
  -  Operational efficiency
  -  Order of magnitude costs
  -  Level of service impacts/benefits
  -  Flexibility (technology, schedule, demand, other)
  -  Impacts to natural/undisturbed areas
  -  Impacts to/integration with existing facilities
  -  Connectivity

*Criteria will evolve during the evaluation process.*

## Vision2040 Next Steps

- ▶ Alternatives evaluation: 9 shortlisted to 4
  - Shortlist may be hybrids of 9 composite alternatives
  - Select and refine Preferred Alternative
- ▶ Incorporate GA, cargo, and support facilities
- ▶ Integrate land use/development planning concepts
- ▶ Land Use Planning Public Workshop – June 28
- ▶ Public Workshop #4 – present preferred alternative
- ▶ Implementation planning and financial analysis

*Shortlist of 4 alternatives to be identified late-June*

## Workshop Next Steps

- ▶ Review 9 composite alternatives
  - ▶ Boards
  - ▶ Handouts
  - ▶ Authority and Vision2040 team representatives
- ▶ Ask questions / provide feedback and input
- ▶ Participate in future workshops

# Public Involvement

Your comments are critical to Vision2040's success.

Join us online or through social media for information on our master plan study and to provide your comments.



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## Review of Alternatives (Boards)



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